

WHAT IS CLAIMED IS:

1. A magnetic head driving circuit comprising:  
a coil for generating a magnetic field  
corresponding to data to be recorded;  
a main driving circuit for making a current  
flow in a positive or a negative direction through said  
coil; and  
a sub-driving circuit for applying a voltage  
symmetrical with respect to the centered coil by  
superposing a pulse voltage corresponding to a change-  
over direction at both terminals of said coil.
2. A magnetic head driving circuit according to  
claim 1, wherein  
resistors are symmetrically connected between  
said coil and said main driving circuit, and said sub-  
driving circuit is connected to a connection node  
between one of said resistors and said coil, and to a  
connection node between the other of said resistors and  
said coil.
3. A magnetic head driving circuit according to  
claim 1, wherein said sub-driving circuit includes at  
least two pairs of circuits, each pair including a  
positive pulse adding circuit and a negative pulse  
adding circuit.
4. A magnetic head driving circuit according to  
claim 1, wherein said sub-driving circuit has a func-  
tion to change a pulse voltage value to be adding to  
said coil in accordance with a current value made to

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flow by said main driving circuit.

5. A magnetic recording apparatus provided with a magnetic head driving circuit, said magnetic head driving circuit comprising:

magnetic disk for recording data;

a controller for generating the data to be recorded on said magnetic disk;

a coil for generating a magnetic field corresponding to the data;

a main driving circuit for flowing a current in a positive direction or a negative direction through said coil; and

a sub-driving circuit for applying voltages symmetrical with respect to the centered coil by superposing pulse voltages corresponding to a direction of change-over to both terminals of said coil.

6. A magnetic recording apparatus according to claim 5, wherein a central potential of said coil is substantially equal to a potential of said magnetic disk.

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